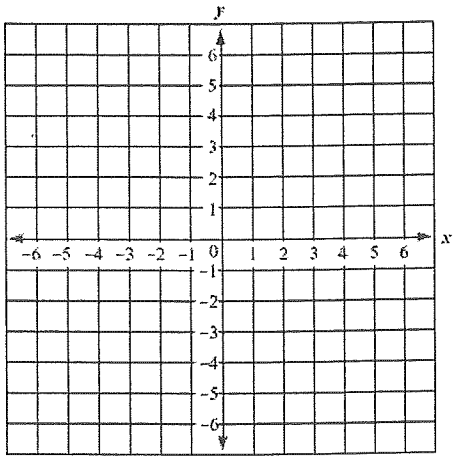
Algebra I
Chapter 7 Review Sheet

Name: _____
Date: _____

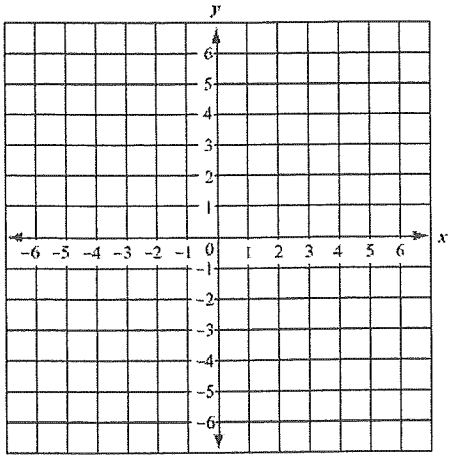
Solve each system by GRAPHING.

1. $\begin{cases} y = -x + 6 \\ y = 3x - 2 \end{cases}$



Solution: _____

2. $\begin{cases} 2x + y = 6 \\ y = \frac{1}{3}x - 1 \end{cases}$



Solution: _____

Solve each system by graphing on your calculator. Sketch each.

3. $\begin{cases} y = \frac{1}{4}x - 2 \\ y = 3x + 9 \end{cases}$

4. $\begin{cases} y = 4x + 1 \\ y = -x - 4 \end{cases}$

Solve each system by ELIMINATION.

5. $\begin{cases} 4x + 2y = 0 \\ x - 2y = 10 \end{cases}$

6. $\begin{cases} 4x + 5y = 41 \\ 7x - 3y = 60 \end{cases}$

Classify each system and state its solution (or how many solutions it has). If it has a solution be sure to find it!!

7. $\begin{cases} x - y = 3 \\ -2x + 2y = 6 \end{cases}$

8. $\begin{cases} 2x + y = 3 \\ 4x + y = 6 \end{cases}$

9. $\begin{cases} 3x - 2y = 6 \\ -6x + 4y = -12 \end{cases}$

10. $\begin{cases} 4x - 2y = -2 \\ y = 2x + 1 \end{cases}$

Set up and solve a system.

11. At an ice cream parlor, ice cream cones cost $1.10 and sundaes cost $2.35. One day, the receipts for a total of 172 cones and sundaes were $294.20. How many cones were sold?

12. You purchase 8 gal of paint and 3 brushes for $152.50. The next day, you purchase 6 gal of paint and 2 brushes for $113.00. How much does each gallon of paint and each brush cost?